

IN THE CLAIMS:

Please amend Claims 1, 17, 20-23, and 25 to read as follows.

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

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1. (Currently Amended) A print apparatus which forms a color image by applying ink materials of plural colors onto a print medium, using a recording means including a plurality of nozzle arrays arranged along a predetermined direction, said nozzle array having a plurality of nozzles to eject ink materials, said apparatus comprising:

a scanner to scan the recording means in forward scanning and backward scanning directions, wherein said scanner scans along ~~an arrangement direction of the plurality of nozzles~~ said predetermined direction; and

~~a controller to control a movement of a recording head in the forward scanning and the backward scanning directions; and~~

a print controller to control the printing ~~by means of said plurality of nozzles~~ so that a printing means executes the printing while said scanner scans said recording means in the forward scanning and the backward scanning directions,

wherein said ~~printing is executed by applying~~ print controller applies plural ink materials for each pixel area, said pixel area being an area as a unit to form a primary or secondary color thereon, ~~said pixel area being a unit area,~~

~~wherein, as to the pixel area forming the secondary color thereon, dots of the secondary color are formed, in ink materials of plural colors, at plural positions on the pixel area to form the secondary color, and~~

~~said ink materials of plural colors are applied with their application~~

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~~order symmetric regarding said dots of the secondary color to be formed at the plural positions on the pixel area~~

~~wherein at plural positions on a pixel area for forming the secondary color thereon, said print controller forms dots of the secondary color, in ink materials of plural colors, for forming the secondary color, during one scan by said scanner, and~~

~~wherein said print controller applies said ink materials of plural colors so that an application order of said ink materials of plural colors, of said dots of the secondary color to be formed at plural positions on said pixel area, may be symmetric.~~

2. (Previously Amended) The print apparatus according to Claim 1, wherein said ink material of another color is applied plural times onto said pixel area.

3. (Previously Amended) The print apparatus according to Claim 1, wherein dots of the ink materials of the plural colors applied onto said pixel area have centers of gravity all substantially matching each other.

4. (Previously Amended) The print apparatus according to Claim 1, wherein dots of the ink materials of the plural colors applied onto said pixel area overlap at least in part.

5. (Previously Amended) The print apparatus according to Claim 2, wherein a plurality of dots of the secondary color are laid in different application orders of the ink material of said certain color and the ink material of said another color in said pixel area.

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6. (Previously Amended) The print apparatus according to Claim 1, wherein said recording head comprises a plurality of recording elements arranged in such a manner that recording elements for applying the ink material of said certain color are symmetric in a scanning direction with respect to recording element for applying the ink material of said another color.

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7. (Previously Amended) The print apparatus according to Claim 6, wherein said recording head comprises recording elements for applying at least ink materials of cyan, magenta, and yellow, wherein, with respect to a recording element corresponding to either a certain color, the recording elements corresponding to the other colors are located in symmetry in the scanning direction.

8. (Previously Amended) The print apparatus according to Claim 6, wherein said recording head comprises two sets of recording elements for applying at least ink materials of cyan, magenta, and yellow arranged in symmetry in the scanning direction.

9. (Previously Amended) The print apparatus according to Claim 7, wherein said recording head further comprises a recording element for applying black ink.

10. (Previously Amended) The print apparatus according to Claim 8, wherein said recording head further comprises a recording element for applying black ink.

11. (Previously Amended) The print apparatus according to Claim 6, wherein the ink materials of the plural colors applied to said pixel area are applied by one scan of said recording head.

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12. (Previously Amended) The print apparatus according to Claim 1, wherein the ink materials of the plural colors applied to said pixel area are applied by plural scans in forward and backward scanning directions of said recording head.

13. (Previously Amended) The print apparatus according to Claim 1, comprising a memory for storing data for selectively applying the ink materials of said plural colors onto the print medium in accordance with the color image and for storing data for enabling the ink material of said certain color to be applied plural times onto said pixel area.

14. (Previously Amended) The print apparatus according to Claim 13, wherein said memory is a print buffer.

15. (Previously Amended) The print apparatus according to Claim 7, comprising a memory for storing data for selectively applying the ink materials of said plural colors onto the print medium in accordance with the color image, in correspondence to each of said plurality of recording elements.

16. (Previously Amended) The print apparatus according to either one of Claims 1 to 15, wherein said recording head ejects the ink materials by heat.

17. (Currently Amended) A print apparatus which forms a color image by applying ink materials of plural colors onto a print medium using a recording means including a plurality of nozzle arrays arranged along a predetermined direction, said nozzle

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array having a plurality of nozzles to eject ink materials, said apparatus comprising,  
a scanner to scan the recording means in forward scanning and  
backward scanning directions, wherein said scanner scans along ~~an arrangement direction~~  
of the plurality of nozzles the predetermined direction; and

~~a controller to control a movement of a recording head in the  
forward scanning and the backward scanning directions; and~~

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a print controller to control the printing by applying plural ink  
materials for each pixel area ~~to form a color thereon~~, said pixel area being ~~a unit area~~ an  
area as a unit to form a color thereon,

~~wherein said print controller applies said ink materials of plural  
different colors with their application order symmetric to form a process color so as to form  
plural dots, in ink materials of plural colors, at the plural positions on said pixel area~~

wherein, on a pixel area for forming thereon a process color being  
represented in ink materials of plural colors, said print controller forms a plurality of dots  
of the process color, in printing during one scan of said recording means by said scanner,  
and

wherein an application order of the ink materials of plural colors for  
forming the process color may be symmetric.

18. (Previously Amended) The print apparatus according to Claim 1,  
said apparatus being applied to a copy machine having a scanner.

19. (Previously Amended) The print apparatus according to Claim 1,  
said apparatus being applied to a facsimile machine having a transmitter and receiver of  
data.

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20. (Currently Amended) A print method which forms a color image by applying ink materials of plural colors onto a print medium using a recording means including a plurality of nozzle arrays arranged along a predetermined direction, the nozzle array having a plurality of nozzles to eject ink materials, said method comprising the following steps:

scanning the recording means in forward scanning and backward scanning directions, wherein the scanning is performed along ~~an arrangement direction of the plurality of nozzles~~ the predetermined direction;

controlling a movement of a recording head in the forward scanning and the backward scanning directions; and

controlling the printing by means of the plurality of nozzles so that a printing means executes the printing while the scanning step scans the recording means in the forward scanning and the backward scanning directions,

wherein, in said printing control step, the ~~printing is executed by~~ applying print controller applies plural ink materials for each pixel area, the pixel area being an area as a unit to form a primary or secondary color thereon, ~~said pixel area being a unit area;~~

~~wherein, as to the pixel area forming the secondary color thereon, dots of the secondary color are formed, in ink materials of plural colors, at plural positions on the pixel area to form the secondary color, and~~

~~said ink materials of plural colors are applied with their application order symmetric regarding said dots of the secondary color to be formed at the plural positions on the pixel area~~

wherein at plural positions on a pixel area for forming the secondary color thereon, in said printing control step, the print controller forms dots of the secondary

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color, in ink materials of plural colors for forming the secondary color, during one scan by the scanner, and

wherein, in said printing control step, the print controller applies the ink materials of plural colors so that an application order of the ink materials of plural colors, of the dots of the secondary color to be formed at plural positions on the pixel area may be symmetric.

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21. (Currently Amended) The print method according to Claim 20, wherein ~~said~~ the recording head comprises two sets of recording elements for applying the ink material of ~~said~~ a certain color, which are arranged in symmetry in a scanning direction with respect to a recording element for applying the ink material of ~~said~~ an another color, and

wherein ~~said~~ a first step and ~~said~~ a second step are carried out by one scan of ~~said~~ the recording head.

22. (Currently Amended) A print method which forms a color image by applying ink materials of plural colors onto a print medium using a recording means including a plurality of nozzle arrays arranged along a predetermined direction, the nozzle array having a plurality of nozzles to eject ink materials, said method comprising the following steps:

scanning the recording means in forward scanning and backward scanning directions, wherein the scanning is performed along ~~an arrangement direction of the plurality of nozzles~~ the predetermined direction; and

~~controlling a movement of a recording head in the forward scanning and the backward scanning directions; and~~

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controlling the printing by applying plural ink materials for each pixel area to form a color thereon, ~~said the pixel area being a unit area~~ an area as a unit to form a color thereon,

wherein, in said printing control step, the print controller applies the ink materials of plural different colors with their application order symmetric to form a process color so as to form plural dots, in ink materials of plural colors, at the plural positions on the pixel area.

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wherein, on a pixel area for forming thereon a process color being represented in ink materials of plural colors, in said printing control step, the print controller forms a plurality of dots of the process color, in printing during one scan of the recording means by the scanner, and

wherein an application order of the ink materials of plural colors for forming the process color may be symmetric.

23. (Currently Amended) The print method according to Claim 22, wherein ~~said the~~ recording head comprises two sets of recording elements for applying the ink material of ~~said a~~ certain color and recording elements for applying the ink material of ~~said an~~ another color arranged in symmetry in the scanning direction, and

wherein said scanning step is performed by the recording head.

24. (Previously Amended) The print method according to Claim 23, wherein said scanning step is performed by a plurality of scans in forward and backward scanning directions of the recording head.

25. (Currently Amended) A print apparatus which forms a color image



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by applying ink materials of plural colors onto a print medium, using a recording means including a plurality of nozzle arrays arranged along a predetermined direction, said nozzle array having a plurality of nozzles to eject ink materials, said apparatus comprising:

a scanner to scan the recording means in forward scanning and backward scanning directions, wherein said scanner scans along ~~an arrangement direction~~ of the plurality of nozzles said predetermined direction;

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~~a controller to control a movement of a recording head in the forward scanning and the backward scanning directions;~~

a print controller to control the printing ~~by means of said plurality of nozzles~~ so that a printing means executes the printing while said scanner scans said recording means in the forward scanning and the backward scanning directions,

wherein ~~said printing is executed by applying~~ print controller applies plural ink materials for each pixel area, said pixel area being an area as a unit to form a primary or secondary color thereon, ~~said pixel area being a unit area,~~

wherein, ~~as to the pixel area forming the secondary color thereon,~~ ~~dots of the secondary color are formed, in ink materials of plural colors, at plural positions on the pixel area to form the secondary color, and~~

~~said ink materials of plural colors are applied with their application order symmetric regarding said dots of the secondary color to be formed at the plural positions on the pixel area;~~

wherein at plural positions on a pixel area for forming the secondary color thereon, said print controller forms dots of the secondary color, in ink materials of plural colors for forming the secondary color, during one scan by said scanner,

wherein said print controller applies said ink materials of plural colors so that an application order of said ink materials of plural colors, of said dots of the

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secondary color to be formed at plural positions on said pixel area may be symmetric, and  
a data buffer configuration to configure image data to be printed by  
said plurality of nozzles.

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26. (Previously Added) A data buffer configuration of a print apparatus,  
said configuration comprising image data of a certain color written into a plurality of print  
buffers by a print controller, wherein the print controller controls a printing of an image by  
means of a plurality of nozzles,

wherein said printing is executed by applying plural ink materials for  
each pixel area to form a primary or secondary color thereon, said pixel area being a unit  
area,

wherein, as to the pixel area forming the secondary color thereon,  
dots of the secondary color are formed, in ink materials of plural colors, at plural positions  
on the pixel area to form the secondary color.

27. (Previously Added) The data buffer configuration according to  
Claim 26, wherein the same data may be written into two print buffers.